

- i) a stator having multiple conductors that create a plurality of magnetic fields when electrical current is conducted by the conductors; and
- ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together;
- b) a rotatable hub having a magnet connected thereto in operable proximity to the stator;
- c) a shaft;
- d) a bearing around the shaft; and
- e) one of the shaft or bearing being fixed to the stator assembly by the body of phase change material and being in contact therewith; and the other of the shaft or bearing being fixed to the rotatable hub.

9. (Amended) The high speed motor of claim 3 wherein the stator further comprises a core and the conductors induce magnetic fields in the core when current is conducted by the conductors.

36. (Amended) A high speed spindle motor comprising:

- a) a stator assembly comprising:
 - i) a stator having multiple conductors that create a plurality of magnetic fields when electrical current is conducted by the conductors;
 - ii) a body of a phase change material substantially encapsulating the stator so as to rigidly fix the stator and body together; and
 - iii) a solid insert substantially encapsulated within the body;
- b) a rotatable hub having a magnet connected thereto in operable proximity to the stator;
- c) a shaft;
- d) a bearing around the shaft; and
- e) one of the shaft or bearing being fixed to the stator assembly and the other of the shaft or bearing being fixed to the rotatable hub.

57. (Twice amended) A high speed spindle motor comprising:

a) a stator substantially encapsulated in a thermoplastic body so as to rigidly fix the stator and body together, the thermoplastic body having a cylindrical hole therein;

b) a bearing press fit into the cylindrical hole in contact with the thermoplastic body;

c) a shaft rotatably supported by the bearing; and

d) a hub having a magnet connected thereto, the hub being fixed to the shaft.

61. (New) A motor comprising:

a) a shaft having a rotational axis;

b) a bearing allowing rotation about the rotational axis of the shaft;

c) windings acting as conductors; and

d) an injection molded thermoplastic with a thermal conductivity of at least 0.7 watts/meter °K at 23°C encapsulating at least a portion of the windings.

62. (New) The motor of claim 61 wherein the thermoplastic is filled with aluminum oxide.

63. (New) The motor of claim 61 wherein a bearing is attached to and contacts the thermoplastic.

64. (New) The motor of claim 61 wherein the shaft is attached to and contacts the thermoplastic.

65. (New) A motor comprising:

a) At least one wire winding acting as a conductor;

b) at least one terminal which is electrically connected to the wire winding; and

c) an injection molded thermoplastic filled with aluminum oxide encapsulating at least a portion of the terminal at a point of its connection.